



STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION

Underground Storage Tanks
4th Floor, L & C Tower
401 Church Street
Nashville, TN 37243-1541

Subject: Reasonable Reimbursement Guidance Document
October, 2004

Enclosed is a copy of Tennessee's Underground Storage Tanks Reimbursement Guidance Document effective October 2004. This document contains unit rates, tasks, performance measures and examples that the Division of Underground Storage Tanks (the Division) considers being reasonable. The "Division" will review Reimbursement Applications based on this reasonable reimbursement guidance document. **Only these rates or lower will be reimbursed.**

This list should be used when billing for work performed if the contract between the Responsible Party and the Approved CAC states the contractor will use the Division's reasonable reimbursement rates.

Rule 1200-1-15-.09(13)(e) states: "All payments shall be subject to approval by the Division. Should a site inspection or other information available to the Division reveal a discrepancy between the work performed and the work addressed by a payment application, the Department may deny payment or may require the Fund to be reimbursed."

Rule 1200-1-15-.09(15)(d) states in part: "If certain costs are considered as not being reasonable or eligible for reimbursement, the Department may issue a check for the amount of the application not in question and provide a forty-five (45) day period in which the owner or operator or contractor may present such information as is necessary to justify the disallowed costs. Following review of such information, the department may agree to pay the previously disallowed costs, or any portion thereof, or may again disallow the costs for payment."

Rule 1200-1-15-.09(2)(ii) states: "Reasonable cost means that monetary amount or range, as determined by the Department, to be commensurate with a corrective action. The Department's determination is based on an evaluation of typical costs expected for the particular corrective action under review considering the scope and complexity of the activities involved."

Photocopied receipts/invoices may be submitted for the following but all invoices must be legible or they will not be reimbursed.

Backfill(less tank void)	Shipping (lab samples or freight)
Hotel /Motel	Utility bills
Disposal of soil	Contractor
(Weight ticket must accompany invoice)	Subcontractor
Lab analysis	

INELIGIBLE COSTS

Replacement, repair, maintenance, removal and retrofitting of affected tank systems

Replacement of asphalt or concrete (except replacement for trenching for a system)

Tank disposal, preparation for tank disposal or removal

Backfill for tank void

Loss of product

Legal fees

Loss of business revenues (Business interruption)

Responsible parties' administration costs includes management, office time and supplies

Cost of airfare and car rentals

Any travel outside of the state of Tennessee

Expedient or rush charges on lab analysis unless prior approval is granted by the Division

Overtime charges

Installation of leak detection

Cost of completing Tank Closure report, Application for Fund Eligibility form, the Reimbursement Application or Appeals for denied costs.

Any type of reference book, technical book or guideline

General office supplies

Copy machine and copies

Fax transmittals

Telephone charges unless they are in connection with a telemetry system and it is plainly stated on the reimbursement application

Cellular or portable phone charges

Office equipment and miscellaneous office items

Computer time

Video camcorder

Postage or express shipping of maps, photographs, reports, etc.

Insurance (except insurance on corrective action systems)

Markup on utility bills, permits, per diem and leased capital expense items

Personnel protective equipment

Any service for which the applicant will receive reimbursement from a commercial insurance carrier

Rental charges that exceed cost of equipment

Items that are not totally expended on one site such as raincoats, hammers and other tools, shovels

Utility deposits

Property Title Searches

Underground Locator services (unless service is guaranteed)

Tank Removal

The following is a list of activities associated with permanently closing petroleum underground storage tanks, which are not covered by the Underground Storage Tank Fund. This includes cost for personnel, equipment, supplies, etc., incurred for:

1. Preparation of the Tank closure Application.
2. Preparation of the Permanent Closure Report.
3. Activities associated with preparing, removing, and disposing of the tank system, including breaking and removing concrete, removing product from tanks, de-gassing tanks, etc.

4. Removal of backfill material in the tank pit and the first 100 cubic yards of overexcavated contaminated native material.
5. The samples required for the tank closure.
6. Field screening activities for the underground storage tank backfill material and the first 100 cubic yards of stockpiled soil.
7. If backfill material or overexcavated material requires treatment due to contamination, the cost of treatment or disposal will be covered.

ELIGIBLE COSTS

Soil and water laboratory analysis

Cost of collection of samples

Boreholes associated with investigation

Installation of monitoring and recovery wells

Preparation of periodic reports including the Environmental Assessment Report, Corrective Action Plan, Reimbursement Application, and Monitoring Reports required by the Division

Rental of equipment that deals with emergency response, investigation, and remediation of the contaminated site

Construction, operation and maintenance of treatment systems for site rehabilitation such as an air stripper or soil venting systems

Disposal of contaminated soil and/or water to landfill, incineration, or discharge to sewage systems

Recovery of free product from ground water or soil

Tank tightness tests are allowed only if used for investigation and are requested by the Division. Tank tightness tests used for routine release detection are not reimbursable

Alternate water supply—water taps into public water supply may be eligible but the payment of monthly water bills is not.

Right of Way bonds-no markup

Staff Descriptions

Only the job titles and classifications listed should be used for reimbursement purposes. Any qualified professional who performs a task of a lesser qualified person should be billed at the rate of that job task. For example, a person who meets the experience and education of a professional but performs task such as digging a trench, hand auguring, bailing wells, etc. should be billed at the lesser job classification. The same would also apply if that person is typing a report or using a word processing software; they should be billed at the lesser rate.

Construction Foreman: This person must have completed all appropriate personal protection and safety courses, have three (3) years experience in UST or hazardous substance site work and field supervision experience and must be supervising a construction crew. Maximum rate \$45.00.

Senior Technician: This person must have completed appropriate personal safety and sampling courses and have at least three (3) years of experience working in the environmental field at hazardous substance or UST sites. All technicians must be high school graduates or have passed the General Equivalency Diploma (GED) test. Maximum rate \$45.00.

Technician: This person must have completed appropriate personal safety and sampling courses and have at least one (1) years of experience working in the environmental field at hazardous substance or UST sites. All technicians must be high school graduates or have passed the General Equivalency Diploma (GED) test. Maximum rate \$35.00.

General Laborer: This person must have completed appropriate personal health and safety courses. General laborer includes surveyor helpers, construction workers and other site workers not included in other categories. Maximum rate \$25.00.

Heavy Equipment Operator: This person must be knowledgeable of the capabilities and limitations of the equipment to be used and must be familiar with all applicable laws and regulations governing its use. Equipment operators must have current Health and Safety Training. Maximum rate \$30.00.

Truck Driver: This person must be knowledgeable of all Tennessee motor vehicle laws and regulations as well as hold all licenses required for the type of motor vehicle operated. Maximum rate \$30.00.

Surveyor: This person must have the ability to take linear and angular measurements and apply the principles of geometry and trigonometry to delineate the form, extent, position, etc., of a tract of land. This person must be registered in Tennessee as a surveyor. Maximum rate \$55.00.

Project Manager: This person must have five (5) years full-time experience in investigation, remedial planning or design phases of environmental project management. A BS degree in engineering, geology or other appropriate science is necessary. The person must have supervisory and project management experience. The project manager supervises and assigns tasks to staff members working on contracted projects irrespective of supervisory structure in the organization. The project manager is responsible for all major decisions involving the project. The project manager contributes 5-10% of the total professional hours billed to this project. Postgraduate work in an appropriate science may be substituted on a year for year basis for experience for a maximum of two (2) years. Maximum rate \$80.00.

Senior Review: Experience and Education: This person must be a registered Professional Geologist or a Professional Engineer licensed in the State of Tennessee and have at least five (5) years of UST related work and/or hazardous substance remedial activities. Reimbursement Task: Limited to performing final report review, senior design, complex data analysis and limited field/site work, evaluation of pump test data, and establishing cone of influence for remediation systems, etc. Maximum rate \$80.00.

Engineer: Experience and Education: This person must be a Professional Engineer licensed in the State of Tennessee. Reimbursement Task: Assessment of remedial activities, overseeing drilling and monitoring well installation, compiling and analyzing environmental data, and on site supervision of the installation of remediation systems. Maximum rate \$65.00.

Geologist: Experience and Education: This person must be a registered Geologist in the State of Tennessee. Reimbursement Task: Assessment of remedial activities, overseeing drilling and monitoring well installation, performing aquifer testing, and compiling and analyzing environmental data. Maximum rate \$65.00.

Hydro-geologist: Experience and Education: This person must be a registered Geologist in the State of Tennessee with a BS or MS degree from an accredited four (4) year college in hydro-geology and at least two (2) years of UST related work. Reimbursement Task: Assessment of remedial activities, overseeing of drilling and monitoring well installation, performing aquifer testing, and compiling and analyzing environmental data. Maximum rate \$65.00.

Senior Environmental Specialist: Experience and Education: This person must have a BS or MS degree in biology, engineering, environmental science, industrial hygiene, soil science, or another field of science acceptable to the Division from an accredited four (4) year college and have at least five (5) years of UST related work and/or hazardous substance remedial activities. Maximum rate \$65.00.

Environmental Specialist: Experience and Education: This person must have a BS or MS degree in biology, engineering, environmental science, industrial hygiene, soil science, or another field of science acceptable to the Division from an accredited four (4) year college. Reimbursement Task: Assessment of

remedial activities, overseeing of drilling and monitoring well installation, performing aquifer testing, and compiling and analyzing environmental data. Maximum rate \$55.00.

Contract Administrator: This person must have a degree in Business, Accounting or other degree approved by the Division or an associates degree in Business or Accounting and two (2) years experience in contract administration. Duties included in this category will include assisting the Project Manager, procuring contracts with responsible parties, subcontractors, as well as work order and change order. Maximum rate \$45.00.

Draftsperson: This person must have the ability to develop scaled maps, engineering drawings and contour maps of professional quality. A draftsperson must have two years full time experience relating to drafting and cartography or an Associates degree with emphasis on drafting or CAD programs. Maximum rate \$40.00.

CAD Operator: This person must have ability to develop scaled maps engineering drawings and contour maps using CAD computer programming of significant difficulty including development of stand alone programs. The CAD computer operator must have a degree in information systems analysis, or CAD computer programming or at least 3 years full time increasingly responsible experience as a programmer. Maximum rate \$40.00.

Secretary: (clerical support, word processing and other office workers shall be included in this category). This person must be able to type, use word processors, and carry out general clerical duties. Only expenses associated with site specific work by this position will be compensated. Maximum rate \$25.00.

INITIAL REIMBURSEMENT REQUEST GUIDELINES

The initial reimbursement request shall not be submitted until the Initial Site Characterization Report is completed. The exceptions being if the initial abatement results in contaminant levels below the appropriate soil and ground water cleanup criteria and the case is closed. Subsequent requests may be submitted at the completion of each event until corrective action is implemented, then every 60 days thereafter.

In order to receive reimbursement for expenditures over \$7,500 after the Site Investigation for field/site work, the following documentation may be required upon review of the reimbursement request:

- Timesheets to verify hours billed.
- Signed affidavit from each individual stating what work was performed.
- Copies of site field notebook for the time period in question.
- Work approved by Case Manager

Site Investigation and Project Management

Hours for the field/site work should be within the ranges below to keep the costs within the maximum allowable amount.

A. FIELD/SITE WORK

Hours		Staff
	Initial walk over site	Staff Professional and Technician
	Utility location/water, gas, telephone, etc. and tax map	Staff Professional
	Water use survey	Technician
	Scheduling drillers and surveyors	Staff Professional
	Logging split spoon/boring and collecting soil samples	Staff Professional and Technician
	Well development, collecting water samples and water level measurements	Staff professional and Technician
	Oversight of Surveying crew 4 wells, field time	Staff Professional
	Project management and Senior review	

110-144	Total Hours For Site Investigation		
Hours	Staff and Rate	Amounts	Total
144 hrs.	<u>Field Investigation Hours Analyzed</u>		
6 hrs.	Project management x \$80.00 per hour	\$ 480.00	
10 hrs.	Senior level staff review x \$80.00 per hour	\$ 800.00	
64 hrs.	Staff professional x \$65.00 per hour	\$4,160.00	
64 hrs.	Technician x \$35.00 per hour	\$2,240.00	
Total Cost For Field Investigation			\$7,200.00
Allowable Variance for Field Work			\$ 300.00
Maximum Allowable for Field Investigation			\$7,500.00
<p>Please remember, if field investigation costs exceed \$7,500 for work performed through the ISC the work must be approved in advance by the <u>Case Manager</u> in order to be reimbursed for the costs above \$7,500. This \$7,500 does not include the price of the Initial Abatement Report, or the Initial Site Characterization Report. These costs should be submitted separately on a report page.</p>			

ADDITIONAL ACTIVITIES COST GUIDELINES

MONITORING - SAMPLING/ 4 WELLS

Hours		Amount	Total
1 hr.	Project management x \$80.00 per hour	\$ 80.00	
6 hrs.	Staff professional x \$65.00 per hour	\$390.00	
6 hrs.	Technician x \$35.00 per hour	\$210.00	
TOTAL COST FOR MONITORING			\$680.00
Maximum limits <ul style="list-style-type: none"> • Additional travel time, maximum of 4 hours (2 people) • Additional well sampling, 1 hour each well (2 people) 			

Cost for Performing a MEME.

The following examples deal with two different scenarios that are most commonly ask of the UST Reimbursement Section. Example A deals with a contractor who performs the MEME themselves, in this case the CAC will either own their own or lease the equipment for the task. Example B shows the costs overseen by a CAC with a subcontractor performing the MEME event.

Example (A) Corrective Action Contractor Expected Cost

Section 1. Equipment: In this section we should see the cost of all field equipment needed on site the day the MEME event is schedule to take place. This is the cost allowed for an eight hour MEME event. The cost include a Vacuum Truck with driver on site for ten (10) hours, two (2) hours allowed for set-up and shut-down and eight (8) hours for the actual MEME event. Unit rates may vary with other equipment.

Field monitoring equipment, including safety and fitting connections for the truck and wells, will be limited to a maximum of two hundred dollars (\$200.00) per day.

Mobilization and demobilization of the vacuum truck with driver will be limited to two dollars (\$2.00) per mile with a minimum billing of two hundred dollars (\$200.00) and a maximum of five hundred dollar (\$500.00). Mobilization of other equipment may vary.

Section 2. Field Personnel: Field personnel on site for ten (10) hours (one person) includes an actual eight hour event (TGD 016), plus 2 hours for set-up and shut-down of equipment and taking water level measurements before and after the MEME event. A maximum of 4 hours may be charged for actual travel to and from the site.

Section 3. Project Management (Subcontractor): N/A

Section 4. Hauling and Disposal of contaminated liquid: This example consists of the disposal of 400 gallons of petroleum contaminated liquids. The cost per gallon allowed is a maximum of 50 cents per/gallon, The volume of the liquids may vary. The cost of unloading the truck is included in the mobe/demobe costs identified in Section 1.

Section 5. Subtotal for Subcontractor: N/A

Section 6. Corrective Action Contractor: A total of one (1) hour has been allowed for planning and scheduling the MEME event.

Section 7. Total cost for one multi-phase extraction event.

Example (B) Corrective Action Contractor with subcontractor performing the MEME event

Sections 1, 2, and 4 remain the same.

Section 3. Project Management (Subcontractor): A total of two (2) hours has been allowed for planning and scheduling the MEME event and four (4) hours for professional report preparation.

Section 5. Subtotal for Subcontractor for this event.

Section 6. Corrective Action Contractor: Project Management and Report Preparation: A total of nine hours has been allowed for the following activities: deciding to perform a MEME event, scheduling the MEME event, time onsite for overseeing the actual MEME event, travel time, reviewing the subcontractor's report, and preparing the final report for submittal to the appropriate UST offices.

Section 7. Total cost for one multi-phase extraction event.

All costs associated with each MEME event (except for the MEME application and report, which should be reported separately) must be submitted on one MEME supplemental page. Costs associated with MEME events applied for on any other supplemental page will be denied.

ALL COSTS FOR ONE MEME EVENT SHALL BE LISTED ON THIS PAGE. IF MORE THAN ONE EVENT IS INCLUDED IN THIS REQUEST, USE A SEPARATE PAGE FOR EACH EVENT BUT TOTAL ALL EVENTS ONTO ONE PAGE 6.

**TENNESSEE PETROLEUM UNDERGROUND STORAGE TANK FUND
REASONABLE REIMBURSEMENT RATES**

ALL ITEMS ON THIS PRICE LIST INCLUDE PROFIT

PERSONNEL

Field Operations	Per Hour
Foreman/Senior Technician	\$45.00
Technician	\$35.00
General Laborer	\$25.00
Heavy Equipment Operator/Truck Driver	\$30.00
Surveyor	\$55.00
Technical Staff	
Project Manager/Senior Review	\$80.00
Engineer/Geologist/Hydro-geologist/Sr. Environmental Specialist	\$65.00
Environmental Specialist	\$55.00
Industrial Hygienist	\$70.00
Contract Administrator/Reimbursement Coordinator	\$45.00
Draftsperson/CAD Operator	\$40.00
Secretarial	\$25.00

Travel time for personnel is a maximum of 2 hours one way or 4 hours round trip per day regardless of how far is actually traveled.

Special Note

The reimbursement staff will examine all professional hours billed from the time the release is reported until closure of the site is attained. In certain circumstances, the CAC may have different categories and levels of professional staff employed at a particular site. In these circumstances, the following percentage of professional hours shall not be exceeded for each level.

Total management and senior hours shall not exceed thirty-per cent (30%) of the total professional hours billed, with Management limited to a maximum of ten percent (10%). Professional hours are limited to the following categories: Project Management, Engineers, Geologists, Hydro-geologists, and Environmental Specialists.

REPORT PREPARATION

The following reports are limited to these maximum reimbursable amounts. These reports must be detailed on the reimbursement request showing name and date of report, names and titles of employees and number of hours in completing reports.

Report	Maximum
Initial Abatement Report (IAR)	\$ 370.00
Initial Site Characterization Report (ISCR) (includes site ranking report)	\$3,500.00
Corrective Action Plan (CAP) On-Site Soil Contamination	\$3,200.00
CAP On-Site Soil And Groundwater Contamination	\$5,800.00
CAP On-Site And Off-Site Contamination	\$6,500.00
Environmental Assessment Report	\$3,800.00
Environmental Assessment Report Addendum (for installation of additional wells prorated @ \$600.00 per well)	\$2,400.00
TGD – 003 Application for injection of treated UST water	\$ 370.00
TGD – 004 Free Product Report	\$ 200.00
TGD – 005 Soil Report	\$ 280.00
TGD – 007 Reports	
Site Status Monitoring Report (soil and water)	\$ 840.00
Site Status Monitoring Report (no soil)	\$ 760.00
Comprehensive Monitoring Report (also CLOSURE)	\$ 910.00
Corrective Action Monitoring Report with as built diagram	\$1,800.00
Corrective Action Monitoring Report (semiannual)	\$1,600.00
TGD – 008 Exposure Assessment Report including attachment 6 (SSS) with an additional \$1,000.00 if advanced calculations are required. This will be verified through the Central Office Technical Section.	\$3,500.00
TGD – 009 Application To Treat Soil	\$ 150.00
TGD – 010 Monthly Discharge Report	\$ 120.00
TGD – 011 Risk Based Closure Process Report	\$2,200.00
TGD – 012 Site Check Report	\$2,200.00
TGD – 014 Site Ranking Report (annual)	\$ 360.00
TGD – 015 Closure Report for Monitoring Only Program	\$ 300.00
TGD – 016 MEME Application	\$ 300.00
MEME Report	\$ 300.00
TGD – 017 Well Abandonment Report	\$ 65.00
Monitoring Well proposal	\$ 70.00

EQUIPMENT

Construction equipment rental rates include attachments, depreciation, maintenance, field repairs, fuel, permits, lubricants, tires, OSHA equipment, insurance, equipment shelter and security, overhead, profit, and administrative costs. Mobilization/demobilization is limited to \$1 per mile with a maximum charge of \$125 one way. If the size is not specified, the lowest rate will be applied.

Excavating Equipment	Per Day	Per Week	Over 1 wk
Trencher (walk behind)	\$140.00	\$ 420.00	\$ 84.00
Trencher (ride on)	\$213.00	\$ 639.00	\$128.00
Skid Steer Loader (bobcat)	\$180.00	\$ 540.00	\$108.00
Backhoe (all types)	\$230.00	\$ 690.00	\$138.00
Trackhoe ½ CY Minimum	\$560.00	\$1,680.00	\$336.00
Trackhoe ¾ CY Minimum	\$630.00	\$1,890.00	\$378.00
Trackhoe 1 CY Minimum	\$750.00	\$2,250.00	\$450.00
Crawler Loader 1 CY Minimum	\$400.00	\$1,200.00	\$240.00
Dozer	\$400.00	\$1,200.00	\$240.00
Field Tractor and Attachment	\$150.00	\$ 450.00	\$ 90.00
Dump Truck 15 CY and larger (w/o driver)	\$35.00/hr		
Support Equipment			
5 KW Generator Minimum	\$ 65.00	\$195.00	\$ 39.00
50 KW Generator Minimum	\$210.00	\$630.00	\$126.00
3,000 PSI High Pressure	\$ 55.00	\$165.00	\$ 33.00
Explosion Proof Evacuation Fan (12,000 ft. 3/min air movement) Mobilization included in daily rate	\$ 75.00	\$125.00	\$ 45.00
Miscellaneous Tools And Supplies			
Air Jackhammer with bit and hose	\$ 50.00		
Electric Jackhammer with bit	\$ 75.00		
Compressor 100 CFM, Gas Powered	\$ 70.00		
Compressor 175 CFM, Gas Powered	\$105.00		
Concrete Saw with blade	\$ 80.00		
Hydrocarbon Skimmer Pump (self leveling)	\$ 40.00	\$120.00	\$24.00
Submersible Sampling Pump (Electric)			
2-inch diameter	\$ 65.00		
4-inch diameter	\$ 35.00		
Self Priming Centrifugal Pump (trash)			
2-inch discharge	\$ 35.00		
3-inch discharge	\$ 50.00		
4-inch discharge	\$ 65.00		
Disposable Bailer	\$ 10.00		
Welder/supplies/fuel	\$ 55.00		
Petroleum Absorbent Booms	\$ 50.00		

8 inch diameter, 10 ft. sections			
Petroleum Absorbent Pads 3/16", 18" x 18", 100 count	\$ 60.00		
Petroleum Absorbent Pads 3/8", 18" x 18", 100 count	\$ 75.00		
Petroleum Absorbent Sweeps 18" x 100' x 3/8	\$ 95.00		
Reconditioned Drums 17-H, 55-gallon	\$ 30.00		
Portable Field Instruments			
Combustible Gas Indicator (LEL)	\$ 20.00		
Combustible Gas Indicator/with oxygen meter	\$ 25.00		
Oxygen Meter(dissolved/reduced)	\$ 25.00		
Photoionization Detector (PID)	\$ 65.00		
OVA Flame Ionization Organic Vapor Meter	\$ 85.00		
Oil/water Interface Probe	\$ 30.00		
Toxic Gas Detection Equipment Pump	\$ 5.00		
Detection tubes	\$5.00/tube		
Electronic Water-Level Indicator	\$ 20.00		
Electronic Water-Level Recorder/Transducer (two well capability)	\$ 50.00		
Electronic Water-Level Recorder/Transducer (four well capability)	\$100.00		
Velocity Meter	\$ 45.00		
Conductivity and pH Meter	\$ 10.00		
Safety cones, barricades, caution tape	\$ 10.00		
Disposable camera and film development	\$ 15.00		

VEHICLES

Please specify truck size on request form. If we can not differentiate between the trucks we will allow only \$.35 per mile. **Reimbursement is only for mileage within Tennessee with a maximum 250 miles round trip, to and from site. This pertains to all travel including CAC, all subcontractors, and any others not specified persons.**

Mobilization and demobilization of a vacuum truck with driver will be limited to two (\$2.00) dollars per mile with a minimum billing of two hundred (\$200.00) dollars and maximum of five hundred (\$500.00) dollars. Mobilization of other equipment may vary.

	Rate
Autos/Pick-up Trucks (per mile)	\$.35
Three/quarter(3/4) -ton truck (per mile)	\$.50
Vacuum Truck/with driver	
per hour	\$ 120.00
per week 25-40 hours	\$2,880.00
per hour over 40 hours	\$ 72.00

Per Diem may be charged as a daily rate of \$90.00 but must be supported by the motel/hotel receipts. Meal receipts do not need to be submitted, but meals will not be reimbursed without lodging receipts.

DISPOSAL AND TREATMENT OF CONTAMINATED SOIL:

Contaminated soil and clean soil must be separated. **Disposal of soil below the Division's action levels will not be reimbursed.** If on site soil treatment is not chosen as the method of corrective action, justification for why it was not chosen will be required and the most cost effective alternative (including transportation) will be reimbursed. The method chosen must include invoices and weight tickets.

Special Note

Reimbursement will be limited to actual costs not to exceed the following rates plus a maximum 5% markup.

Treatment	Per Ton
Land Farming	\$28.00
Incineration	\$35.00
Land Fill	cost plus 5%
Transportation (less than 100 miles one way)	\$8.00
Transportation (100 – 200 miles one way)	\$11.00
Transportation (over 200 miles one way)	\$13.00

DISPOSAL AND TREATMENT OF CONTAMINATED WATER:

The price per gallon rate is limited to water treated at a permitted water treatment facility. The Fund will not pay a per gallon rate for water treated on site. The most cost-effective method will be reimbursed. Original invoices and manifests containing quantity treated must be submitted. **Reimbursement will be limited to actual costs plus a maximum 5% markup not to exceed the following rate.**

	Per Gallon
Water	\$.50

Mobile air strippers will be determined on a per site basis. These costs must be approved in advance by the reimbursement section. Be prepared to submit total cost and expected usage on site.

SOIL AND WATER DRUM DISPOSAL

Soil and water that is drummed is not considered the most efficient way of handling contamination and will be scrutinized. The Division will only reimburse the most cost-effective method. **Reimbursement will be limited to actual costs plus a maximum 5% markup not to exceed the following rates. These rates include transportation.**

Contents	Per Drum
Water	\$85.00
Soil	\$85.00

DRILLING

Equipment included in mobilization/demobilization cost: rig, support vehicles, steam cleaner, grout plant, trailers, and crew.

Mobilization/demobilization (maximum 125 miles one way.)	Per Mile
Auger Rig/Core Rig/Wash Rotary Rig (min. \$200)	\$2.50
Air Rotary Rig (min. \$350)	\$3.75

Price per foot includes: drill rig and set up fee, installation, development, sand, bentonite, cement, flush mount manhole, locks, end plug, casing, and screens. The cost of drilling will be reimbursed at cost plus 15% not to exceed the following rates. Corrective Action Contractors should negotiate prices prior to drilling.

	Rate
Auger Drilling (\$/foot/including 2 man crew)	
2-inch Wells	\$ 31.00
4-inch Wells	\$ 39.00
6-inch Wells	\$ 53.00
Air Rotary Drilling (\$/foot/including 2 man crew)	
2-inch Wells	\$ 42.00
4-inch Wells	\$ 50.00
6-inch Wells	\$ 64.00
Well Abandonment includes personnel, equipment, and supplies (per ft.)	\$ 10.00
Borings (per ft.)	\$ 13.00
Decontamination of Rig and Tools (\$/boring) (Includes steam cleaner rental)	\$100.00
Standby Time Not Due to the Driller (\$/day maximum 1 hr.)	\$150.00
Third Man for Drilling (\$/hr)	\$ 25.00
Water Truck (only if water is not available at facility) \$/day	\$200.00
Water Tight Bolt Down Manhole (per well all sizes)	\$ 50.00
Centralizers-stainless steel	
(2) inch	\$ 21.00
(4) inch	\$ 23.00
(6) inch	\$ 26.00
Concrete penetration	\$50.00/hole
Removal of manhole cover and well pad	\$125/well

GEOPROBE DAILY CHARGE

MOB/DEMOB	\$2.00 per mile with a maximum of 250 miles round trip	
DIRECT PUSH	2 MAN CREW	\$1300.00
	8 HOUR DAYS	
SOIL SAMPLE LINERS		\$4.25
POLY TUBING		\$.30/foot

EXPENDABLE POINTS	\$8.75/each
TEMPORARY WELL	\$4.00/foot
BENTONITE(50LB BAG)	\$10.00

Freight charges on well installation and drilling supplies, casing, screen, bentonite, etc. will be paid at actual costs. Driller's per diem must be accompanied by hotel receipt.

Sampling Methods	Rate
Split Spoon Sampling ASTM-D1586 (\$/sample)	\$15.00
Shelby Tube Sampling ASTM-D1587 (\$/sample)	\$40.00
Direct Push (\$/sample)	\$15.00
Soil and Well Sampling Supplies	\$20.00

Rates for sampling supplies includes jars, packing, coolers, ice, disposal of samples, twine or string, latex gloves, isopropyl alcohol, and distilled water. These supplies are per sampling event; not per well.

LABORATORY SERVICES

Invoices must have the facility number listed on them. Only analyticals required by the Division will be reimbursed. Analyticals required by the Division but not listed will be reimbursed at the original invoice cost plus a maximum 15% markup. **The following analyticals will be reimbursed at actual costs plus \$10.00 not to exceed these prices.** The chain of custody for the samples should always be submitted with any analytical charges.

Table 1
Chemicals of Concern
Tennessee Division of Underground Storage Tanks
Effective December 18, 2001

Released Product	Chemicals To Sample	Method
Gasoline	Benzene	8260B
	Ethylbenzene	"
	Toluene	"
	Total Xylenes	"
	MTBE	"
	Naphthalene	"
	GRO	TN GRO
Diesel Jet Fuel Kerosene	Benzene	8260B
	Ethylbenzene	"
	Toluene	"
	Total Xylenes	"
	MtBE	"
	PAHs	8270C
	EPH	TN EPH

Waste Oil Used Oil	EPH PAHs Cadmium Chromium Lead, Total Silver Zinc (Above Metals in Soil)	TN EPH 8270C 200.7 H2O only " " " " 6010/Extraction 3050
Aviation Fuel	Benzene Ethylbenzene Toluene Total Xylenes MTBE Ethylene Dichloride EDC Ethylene Dibromide EDB GRO PAHs EPH Lead, Total Lead, Total (If in soil)	8260B " " " " " " " TN GRO 8270C TN EPH 200.7 In H2O 6010/Extraction 3050

Method	Maximum Reimbursable Rate
Method 8260B -	\$ 90
Method 8270C - PAH	\$ 130
Method 200.7 ICP Metals	\$ 65 for all 5 metals
Method 6010/3050	\$75
Method TN EPH	\$ 52
Method TN GRO	\$ 50

*When sampling a drinking water supply, the detection limit shall not exceed the established MCL for that constituent. Any sample that fails to meet these criteria will be deemed invalid and not reimbursable.

Samples received by the labs above the required temperature of 4 degrees Celsius also will not be reimbursed.